

**Amendments to the Specification**

Please make the following changes to paragraph [0007]:

[0007] According to one embodiment of the ~~present~~ invention, systems, methods, and computer program products ~~of the present invention~~ provide encryption and decryption using wavelet transforms over finite fields. Specifically, the wavelet encryption system and wavelet decryption system (collectively, the “wavelet cryptosystem”) ~~includes~~ include one or more filters that receive a set of wavelet coefficients as input. The wavelet coefficients are then utilized by the wavelet encryption system to cause the filters to convert plaintext [in] into cyphertext (i.e., the encrypted version of the plaintext). The cyphertext ~~is then~~ can be decrypted by the wavelet decryption system, which is operable to reconstruct the original plaintext using wavelet transforms that reverse the effect of the wavelet encryption system. Like the encryption, the decryption of the cyphertext depends on wavelet coefficients which permit the decryption system to cause filters to transform the ~~cyphertext~~ cyphertext into the plaintext.